The Battle of Neighborhoods Project Report

Comparative analysis of San Francisco neighborhoods

Problem Statement

- When a young family moves to a new area, a number of factors go into choosing the right neighborhood/town for the family to move to.

- This project assesses the areas in San Francisco city where the family is moving to and tries to identify the neighborhood that meets the family priorities.

- The neighborhood criteria evaluated are-
  - Housing cost and availability
  - Crime rate
  - Schools in the vicinity
  - Venues such as parks, restaurants

Data Sources

- Crime data – The crime data is taken from police incidents reports from 2018 and 2019.
  https://data.sfgov.org/Public-Safety/Police-Department-Incident-Reports-2018-to-Present/wg3w-h783
  - Crimes grouped by neighborhood are charted and the neighborhoods with lowest crime rates are chosen.
- Housing data – The current houses for sale are obtained from http://www.redfin.com. The data included is limited to 2 bedroom houses.
- Public school listing – The list of public schools with their locations are available at https://data.sfgov.org/Economy-and-Community/Schools/tpp3-epx2 . Only elementary schools are included in the analysis.
  - Low crime neighborhoods are assessed further for available houses and elementary schools in the vicinity of the housing.
- Venue details and distribution across neighborhoods is sourced from Foursquare API.
- A combination of all the above data is used to narrow and select neighborhood that meets the family's priorities.